

TITLE OF APPLICATION

Amend the title of this application from:

"INTEGRATED MEDICATION DELIVERY SYSTEM"

to:

"MEDICATION DELIVERY SYSTEM  
COMPRISING A COMBINED MEDICATION RESERVOIR, PUMP ASSEMBLY AND AN  
ACTUATOR ALLOWING CONTINUOUS FLUID COMMUNICATION THROUGH THE  
PUMP ASSEMBLY"

AMENDMENTS TO THE SPECIFICATION

Please replace the following below-indicated paragraphs with the below replacement paragraphs.

**[0001]** This patent application is a continuation of ~~Serial~~ Application No. 10/083,266 which was filed on February 23, 2002, now U.S. Patent No. 6,679,862. The 10/083,266 Application claims priority to and all advantages of U.S. Provisional Patent Application No. 60/271,187 which was filed on Feb. 23, 2001.

**[0064]** Referring to the Figures, wherein like numerals indicate like or corresponding parts throughout the several views, an integrated medication delivery system 10 is generally disclosed at 10. The integrated medication delivery system 10, hereinafter described as the system 10, delivers medication to a patient 12 (refer to FIG. 19). More specifically, the system 10 is primarily used throughout the medical profession to deliver pain control medication and other medications to the patient 12 after a surgical, or some other medical, procedure. As disclosed in FIG. ~~1B~~ 1A, the system 10 is used in combination with an infusion tube set 14 to deliver the medication to the patient 12. The infusion tube set 14 is described below.

**[0073]** As disclosed best in FIGS. 5 and 7, the pump assembly 28 also includes a piston 54 disposed in the pump housing 30. The motor 42 moves the piston 54 within the pump housing 30 to draw the medication into the pump housing 30 when the first pinch lever 38 is in the open position and the second pinch lever 40 is in the closed position (see FIG. 6B). The motor 42 also moves the piston 54 within the pump housing 30 to displace the medication from the

pump housing 30 when the first pinch lever 38 is in the closed position and the second pinch lever 40 is in the open position (see FIG. 6C). The piston 54 includes an actuation end 56 and a pumping end 58. A diaphragm seal 60 is disposed at the pumping end 58 of the piston 54. The diaphragm seal 60 is secured at the pumping end 58 of the piston 54 by a piston cap 62. The piston 54 also includes at least one slot ~~62~~61 at the actuation end 56. The at least one detent 36 of the pump housing 30, originally introduced above, engages the at least one slot ~~62~~61 at the actuation end 56 of the piston 54 to prevent unwanted rotation of the piston 54 as the piston 54 is moved within the pump housing 30 by the motor 42 and the cam shaft 50.

**[0098]** ~~If~~When the system 10 is ~~being~~ filled with medication, then the fluid filling device 162 is preferably a syringe 166 that moves the plunger 100 into the fill-position for filling the reservoir 24 and the pump assembly 28. The syringe 166 (shown attached to the system 10 in FIG. 12B) engages the access end 132 of the plunger 100 and, by design, automatically moves the plunger 100 into the fill-position for filling the reservoir 24 and the pump assembly 28 through the internal fluid bore 130. Therefore, when the system 10 is being filled, the syringe 166 interacts with the proximate end 86 of the elongated housing 84 and the access end 132 of the plunger 100 and, as the syringe plunger is depressed, the medication flows through the internal fluid bore 130 and the fluid duct 138, into the second fluid passage 150, through the third fluid connector 98 into the reservoir 24, and through the first fluid connector 94 into the pump assembly 28.